Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM107395

SUNDRY NOTICES AND REPORTS ON WELLS

	Do not use th	is form for proposals to	drill or to ro.	.ontor an			
	abandoned we	6. If Indian, Allottee	or Tribe Name				
	SUBMIT IN	TRIPLICATE - Other inst	ructions on	page 2		7. If Unit or CA/Agre	ement, Name and/or No.
1	Type of Well					8. Well Name and No	LE 29-20 FED COM 4H
2	☐ Oil Well ☐ Gas Well ☐ Ot Name of Operator		REBECCA D	ΕΛΙ		9. API Well No.	
_	DEVON ENERGY PRODUCT	J. All Well No.					
3	a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 7310	IUE 2	3b. Phone No Ph: 405-22		ŕ	10. Field and Pool or JABALINA	Exploratory Area
4	Location of Well (Footage, Sec., 7	C., R., M., or Survey Description)		2-1	40BBS	11. County or Parish,	State
	Sec 29 T23S R33E SWSW 2 32.269165 N Lat, 103.602005			OCD 04107 REC	HOBBS 12020 EIVED	LEA COUNTY,	NM
	12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	TE NATUR	E OF NOTI	CE, REPORT, OR OT	HER DATA
	TYPE OF SUBMISSION			TYP	E OF ACTIC)N	
	Notice of Intent ■ Notice of Intent	☐ Acidize	☐ Deej	pen	□ Pro	duction (Start/Resume)	☐ Water Shut-Off
	_	☐ Alter Casing	☐ Hyd	raulic Fractur	ing 🔲 Red	clamation	■ Well Integrity
	☐ Subsequent Report	☐ Casing Repair	□ New	Construction	□ Red	complete	
	☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	n 🔲 Ter	nporarily Abandon	PD
		☐ Convert to Injection	☐ Plug	Back	□ Wa	ter Disposal	
	Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the work following completion of the involve testing has been completed. Final A determined that the site is ready for Devon Energy Production Copermitted 5-1/2? 17 ppf P110	ally or recomplete horizontally, and will be performed or provide a operations. If the operation restandonment Notices must be file final inspection. L.P. respectfully request:	give subsurface the Bond No. on ults in a multiple d only after all a	locations and magnetic file with BLM ecompletion or requirements, in production	neasured and transfer recompletion including reclar casing from	ue vertical depths of all perting subsequent reports must be in a new interval, a Form 31 (nation, have been completed) the	nent markers and zones. e filed within 30 days 50-4 must be filed once
	Please see attached revised	drilling plan and spec shee	t.				
1	4. I hereby certify that the foregoing i	s true and correct. Electronic Submission #5	09889 verifie	d by the BLM	Well Inform	ation System	
	C	For DEVON ENERG Committed to AFMSS for pro		ANDY VIGIL	on 04/07/202	0 (20CV0043SE)	
	Name(Printed/Typed) REBECC	A DEAL		Title REO	GULATORY	COMPLIANCE PROFE	ESSI
	Signature (Electronic	Submission)		Date 04/0	07/2020		
		THIS SPACE FO	R FEDERA	L OR STA	TE OFFIC	E USE	
	pproved By LONG VO	TitlePETR(OLEUM EN	GINEER	Date 04/07/2020		
cer	nditions of approval, if any, are attache ify that the applicant holds legal or eq ich would entitle the applicant to cond	uitable title to those rights in the		Office Hob	bs		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Revisions to Operator-Submitted EC Data for Sundry Notice #509889

Operator Submitted BLM Revised (AFMSS)

APDCH **APDCH** Sundry Type: NOI NOI

Lease: NMNM107395 NMNM107395

Agreement:

Operator: **DEVON ENERGY PRODUCTION COMPAN DEVON ENERGY PRODUCTION COMPAN**

333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102 333 WEST SHERIDAN AVENUE OKLAHOMA CITY, OK 73102

Ph: 405-228-8429 Ph: 4055526571

Admin Contact:

REBECCA DEAL REGULATORY COMPLIANCE PROFESSI REBECCA DEAL REGULATORY COMPLIANCE PROFESSI

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Tech Contact:

REBECCA DEAL REGULATORY COMPLIANCE PROFESSI E-Mail: Rebecca.Deal@dvn.com REBECCA DEAL REGULATORY COMPLIANCE PROFESSI

E-Mail: Rebecca.Deal@dvn.com

Ph: 405-228-8429 Ph: 405-228-8429

Location:

State: County: NM LEA NM LEA

JABALINA; WOLFCAMP, SW Field/Pool: **JABALINA**

DANGER NOODLE 29-20 FED COM 4H Sec 29 T23S R33E Mer NMP SWSW 253FSL 271FWL Well/Facility:

DANGER NOODLE 29-20 FED COM 4H Sec 29 T23S R33E SWSW 253FSL 271FWL

32.269165 N Lat, 103.602005 W Lon

Danger Noodle 29-20 Fed Com 4H

1. Geologic Formations

TVD of target	12550	Pilot hole depth	N/A
MD at TD:	22801	Deepest expected fresh water	

Basin

Dasin		777 : 77.74	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
	HOIII IXD	Zone:	
Rustler	1117		
Salt	1367		
Base of Salt	4543		
Delaware	4862		
Bone Spring 1st	8933		
Bone Spring 2nd	10355		
Bone Spring 3rd	11250		
Wolfcamp	12240		
		·	

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

Hole Size	Casing	Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Colli	Collapse	Burst	Tension
17 1/2	0	1142 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	11250 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
				BLM N	Ainimum Sat	fety Factor	1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Casing Program (Alternative Design)

Hole Size		Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Grade Conn	Collapse	Burst	Tension
17 1/2	0	1142 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	11250 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6
7 7/8	0	TD	6	24.5	P110	DWC	1.125	1.25	1.6
BLM Minimum Safety Factor				1.125	1	1.6 Dry 1.8 Wet			

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- •Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to BTC.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Danger Noodle 29-20 Fed Com 4H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specficition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading	Y
assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	Y
of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous	
casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	865	Surf	13.2	1.44	Lead: Class C Cement + additives
T . 1	719	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	883	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	93	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	462	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	719	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	60	9981	9.0	3.3	Lead: Class H /C + additives
Froduction	690	11981	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	865	Surf	13.2	1.44	Lead: Class C Cement + additives
Total	472	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	518	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w DV @ ~4500	321	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	472	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 (10.625" Hole Size)	676	Surf	9	3.27	Lead: Class C Cement + additives
Int I (10.625 Hole Size)	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	95	9981	9.0	3.3	Lead: Class H /C + additives
Production	1173	11981	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		✓	Tested to:	
			Annular		X	50% of rated working pressure	
Int 1	13-58"	5M		d Ram	X		
IIIt I	13 30	JIVI		e Ram		5M	
			Doub	le Ram	X	3111	
			Other*				
			Annular (5M)		X	100% of rated working pressure	
Production	13-5/8"	10M	Blind Ram		X		
Troduction		1011	Pipe Ram			10M	
			Doub	le Ram	X	10111	
			Other*				
			Annular (5M)				
			Blind Ram				
			Pipe Ram				
			Double Ram				
			Other*				
N A variance is requested for	the use of a	diverter on	the surface	casing. See a	attached for so	chematic.	
Y A variance is requested to r	A variance is requested to run a 5 M annular on a 10M system						

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing			
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the		
X	Completion Report and sbumitted to the BLM.		
	No logs are planned based on well control or offset log information.		
	Drill stem test? If yes, explain.		
	Coring? If yes, explain.		

Additional	logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6852
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments	1
X	Directional Plan
	Other, describe